

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

689 Revision 2 Beechcraft F17D SF17D September 23, 2013
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**AIRCRAFT SPECIFICATION NO. 689**

Type Certificate Holder

Beechcraft Corporation  
10511 East Central  
Wichita, Kansas 67206

Type Certificate Holder Record:

Beech Aircraft Corporation transferred to  
Raytheon Aircraft Company on April 15, 1996

Raytheon Aircraft Company transferred to  
Hawker Beechcraft Corporation on March 26, 2007

Hawker Beechcraft Corporation transferred to  
Beechcraft Corporation on April 12, 2013

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MODELS: Beechcraft F17D (UC-43C) and SP17D, 5 PCL-SB

T.C. NUMBER: 689 (Approved 8/26/38 and 6/10/41 respectively)  
(Same as E17B, T.C. 641, except engine installation)

Engine	Jacobs L-6, L-6M or L-6MB
Fuel	80 min. octane aviation gasoline
Engine limits	Maximum, except take-off (sea level) 24.5 in. Hg., 2100 rpm (300 hp) (Straight line manifold pressure variation with altitude to 3700 ft.) 23.5 in. Hg., 2100 rpm (300 hp) Take-off (one minute) 26.0 in. Hg., 2200 rpm (330 hp)
Airspeed limits	Landplane: Level flight or climb - 189 mph True Ind. Glide or dive - 222 mph True Ind. Flaps extended - 117 mph True Ind. Seaplane: Level flight or climb - 140 mph True Ind. Glide or dive - 169 mph True Ind. Flaps extended - 117 mph True Ind.
Propeller limits	Maximum permissible diameter 107 in. (for clearance)
C.G. range	Landplane (+17.4) (8.4 percent MAC) to (+27.4) (26 percent MAC) Seaplane (+16.5) (6.8 percent MAC) to (+23.5) (19.1 percent MAC)
Datum	Leading edge of lower wing
MAC	57.2 in. L.E. MAC (+12.6)
Leveling means	Airplane level when stagger (horizontal distance between wing trailing edges near fuselage) is 25.6 inches
Maximum weight	Landplane - 3590 lbs. Seaplane - 3940 lbs.
No. seats	5 (2 at (+18), 3 at (+62)) (See item 301)
Baggage	125 lbs. maximum (+88) (See item 216)
Fuel capacity	77 gallons (three tanks - two 24 gallon tanks in lower wings (+24) and one 29 gallon tank in fuselage (+32)) (See item 314)
Oil capacity	5 gallons (-16)
Control surface movements	Elevators 38 degrees up 25 degrees down Elevator tabs 21 degrees up 25 degrees down Aileron 32 degrees up 24 degrees down Rudder 28 degrees right 28 degrees left

Serial Nos. eligible Flaps 43 degrees down  
 Required equipment 211 and up, except 219, and all AAF numbers  
 Landplane: Items 101, 102, 103, 104, 105, 106,  
 107, 108, 109, 110, 111, 112, 113 and 114  
 Seaplane: Items 101, 102, 103, 104, 105, 108,  
 109, 110, 111, 113, 114, 151, 152, and 153

Specifications Pertinent to All Models  
 Certification basis Type Certificate No. 689 (CAR 4a)  
 Production basis None (See NOTE A)  
 Export eligibility Eligible for export as follows, subject to  
 provisions of MOP 2-4:  
 (a) Canada  
 Landplane and seaplane eligible  
 Skiplane - not eligible. However, structure  
 complies with Canadian requirements for ski  
 gear when Item 310 is installed. Maximum  
 pedestal height 17 in. Tread is same as  
 landplane.  
 (b) All other countries except New Zealand.

EQUIPMENT: A plus (+) or minus (-) sign preceding the weight of an optional  
 item indicates the net weight change between that item and the equivalent  
 required item.

Propeller and Propeller Accessories

114.	Propeller - fixed pitch metal (Curtiss 55501)	56 lbs.	(-59)
218.	Constant speed governor - Hamilton Standard A4 (minimum low pitch setting 11 degrees at 42 in. station)	5 lbs.	(-22)
222.	Propeller - Hamilton Standard hub 2B20, blades 6135A-12 to 6135A-16. Diameter 6' 1/8" maximum, 7' 8-7/8" minimum	104 lbs.	(-59)

Engines and Engine Accessories - Fuel and Oil Systems

101.	Engine ring cowl (NACA type)	30 lbs.	(-44)
102.	Carburetor heater (muff type)	2 lbs.	(-44)
103.	Starter (Eclipse E60)	20 lbs.	(-26)
109.	Oil radiator (Drawing E179850 or Harrison 3074410)	8 lbs.	(-34)
110.	Wobble pump (type D-2)	4 lbs.	(+12)
111.	Engine driven fuel pump (Pesco 400 series or Romec RD-3080)	5 lbs.	(-28)
204.	Oil tanks (6-1/2 or 8 gallon)	5 lbs.	(-16)
205.	Additional fuel tanks		
	(a) One 23 or 24 gallon tank, upper right wing	20 lbs.	(+47)
	(b) One 23 or 24 gallon tank, upper left wing	20 lbs.	(+47)
	(May replace lower wing tanks)		
207.	Ignition shielding		
	(a) Breeze or Titeflex	15 lbs.	(-45)
	(b) Packard	10 lbs.	(-45)
219.	Special oil drain and oil radiator by-pass valve	3 lbs.	(-28)
220.	Exhaust gas analyzer (Breeze or Cambridge)	5 lbs.	(-8)
223.	Auxiliary engine drive units		
	(a) Jacobs No. 669 (c) (3 drives)	7 lbs.	(-26)
	(b) Jacobs No. 768 or 776 (2 drives)	4 lbs.	(-26)
314.	One 23 gallon fuel tank in each lower wing (replacing 24 gallon tanks)	No change in weight	

Landing Gear and Floats

106.	7.50-10 wheels (Goodyear 10HBM) with 6-ply tires (wheels must be placarded for these tires)	75 lbs.	(+5)
107.	10x3 tail wheel with 4-ply H.D. tire (wheels must be placarded for this tire)	5 lbs.	(+205)
151.	Edo 39-4000 floats with water rudders		
305.	Dual brakes (copilot)	+2 lbs.	(-8)
306.	Hand operated parking brake	2 lbs.	(-4)
307.	Emergency wood landing skids (Drawing E170140)	16 lbs.	(+22)
308.	Puncture proof tubes	+8 lbs.	(+5)
310.	Skiplane landing gear (Drawings E17820 and E17840)	+3 lbs.	(+20)
311.	10 in. smooth contour tail wheel assembly with 6-ply tire	+1 lb.	(+205)

Electrical Equipment		
104.	Generator (Eclipse G) 15 amp	15 lbs. (-28)
105.	Battery (Exide 6TS-13-1)	36 lbs. (-21) or (+92)
112.	Landing gear motor (Dumore D5, 40 amp fuse required)	9 lbs. (+7)
113.	Flap motor (Dumore KL, 30 amp fuse required)	8 lbs. (+45)
201.	Generator	
	(a) 25 amp (Eclipse D)	20 lbs. (-28)
	(b) 50 amp (Eclipse E)	25 lbs. (-28)
217.	Landing lights	
	(a) One or two (Hall A-6)	4 lbs. each (+35)
	(b) One or two (Grimes ST-250)	4 lbs. each (+21) or (+44)
	(c) One or two (Grimes ST-1000 or ST-1220)	4 lbs. each (+21)
312.	Flap motor (Dumore K special 4253, flexible drive) (30 amp fuse required)	5 lbs. (+45)
313.	Cannon plug (for electric starter)	3 lbs. (-2) or (-8)
Interior Equipment		
108.	Swing-over control column	11 lbs. (+6)
202.	Cabin heater (muff type)	3 lbs. (-30)
203.	Fire extinguisher (pressure type)	
	(a) Lux - 2 lbs.	12 lbs. (-3)
	(b) Lux - 5 lbs.	17 lbs. (-13)
	(c) Pyrene No. 5C	12 lbs. (-10)
	(d) Ace	10 lbs. (-10)
	(e) Lux - 5 lbs. (Drawing I-170555)	21 lbs. (+60)
206.	Parachute flares	
	(a) Three or four 1-1/2 minute (International MK-1)	6 lbs. ea. (+80) or (+108)
	(b) One or two - 3 minute (Wiley A-8)	18 lbs. each (+105)
209.	Parachutes or parachute type chairs or parachute hammock in rear seat back	
211.	Vacuum equipment	
	(a) Pump (Pesco 194, Romec RD-2112 or Eclipse 3166B-1) (See Item 223 under Engine Accessories)	5 lbs. (-20) or (-26)
	(b) Venturi tubes	1 lb. (-4)
301.	Control column ("T" type)	No weight change
309.	Folding back seat (may replace standard front seats)	16 lbs. (+21)
Miscellaneous (not listed above)		
152.	Auxiliary seaplane fin (Drawing D17635)	5 lbs. (+220)
153.	Water rudder control system	4 lbs. (+110)
208.	Golf compartment (Drawing I-17006) (maximum capacity 70 lbs. included in baggage allowance)	9 lbs. (+100)
212.	Extra cabin door on right side	+5 lbs. (+42)
213.	Fuselage alterations for special-purpose equipment	
	(a) Photographic version (Item 214) Includes front and rear floor windows, camera and viewfinder wells, and change in location of rudder cables (Drawings D17015 and D170160)	+13 lbs. (+33)
	(b) Ambulance version (Item 215) Includes rear seat center support and litter floor attachments (Drawings I-17073 and I-17077)	+2 lbs. (+53)
	(c) Mailplane version (Item 216) Includes rear seat center support and metal lined baggage compartment and right rear of cabin (Drawings I-170812 and I-170813)	+15 lbs. (+73)
214.	Photographic version (See Item 213(a))	
	(a) Camera and viewfinder	Maximum 110 lbs. (+51)
	(b) Photographers stool	4 lbs. (+65)
	(These items (a and b) may be installed after fuselage alterations (Item 213(a)) have been made, and standard rear seat, 31 lbs. (+67), camera and viewfinder cover plates, 3 lbs. (+51) have been removed)	
215.	Ambulance version (See Item 213(b))	
	(a) Special right or left half rear seat (Drawing I-17073) (may replace standard rear seat,	

	31 lbs. (+67), if fuselage alterations (Item 213(b)) have been made)	17 lbs. each (+67)
	(b) First aid box installation	7 lbs. (+48)
	(c) Ambulance litter and two safety belts (may be installed after fuselage alteration (Item 213(b)) and removal of right half rear seat(s), and copilots seat, 16 lbs. (+21)	14 lbs. (+42)
216.	Mailplane version (See Item 213(c))	
	(a) Same as 215(a) except Drawing I-170812	
	(b) Removable front and inner sides of forward mail compartment - see (c)	10 lbs. (+52)
	(c) Mail compartments and capacities:	
	(1) Front	Maximum 200 lbs. (+54)
	(2) Rear	Maximum 150 lbs. (+88)
221.	Ballast at tailpost (Drawing I-17007)	Maximum 25 lbs. (+224)
302.	Metal cover for lower wing fuel tank	3 lbs. (+24)
304.	Quick door release	1 lb. (+25)

NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system).

NOTE 2. Fuel restriction placard must state: "Use fuselage tank for take-off and landing. Fill fuselage tank before filling wing tanks. Use wing tanks before using fuselage tank." When upper wing fuel tanks are installed, add, "Fill lower wing tanks before filling upper wing tanks. Use upper wing tanks before using lower wing tanks."

NOTE A. Prior to original certification, each aircraft manufactured subsequent to August 7, 1945, must satisfactorily pass:

- An inspection for workmanship, materials and conformity before covering, metal priming or final finish is applied.
- A final inspection of the completed aircraft.
- A check of the flight characteristics.